Personal Systems Reference Lenovo® Essential Notebooks

March 2011 - Version 396

*Visit **www.lenovo.com/psref** for the latest version*

Lenovo G460

Lenovo G460

Lenovo G460

Lenovo G560

Lenovo® G460 (0677) - Windows 7 (web only models)

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI con-nector	Blue-tooth	Battery cells	Win7 preload	Avail date
✂ 0677-2GU	i3-330M	2.13		*4GB*	14.0" HD	0.3M	Intel HD	320GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	Blue	6-cell	Prem 64	Jan 10
0677-7CU	i3-370M	2.40		*4GB*	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Pro 64	Oct 10
0677-7DU	i5-460M	2.53	2.80	*4GB*	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Pro 64	Oct 10
0677-7TU	i3-370M	2.40		*4GB*	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Oct 10
0677-7UU	i5-460M	2.53	2.80	*4GB*	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Oct 10
0677-7SU	i3-370M	2.40		*4GB*	14.0" HD	0.3M	Intel HD	750GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Pro 64	Dec 10
0677-2WU	i5-430M	2.26	2.53	*4GB*	14.0" HD	0.3M	GF 310M	320GB	DVD±RW	Intel 1000	Black	HDMI	Blue	6-cell	Prem 64	Dec 10
0677-7EU	i5-560M	2.66	3.20	*4GB*	14.0" HD	0.3M	GF 310M	500GB	DVD±RW	Intel 1000	Black	HDMI	Blue	6-cell	Prem 64	Dec 10
☞ 0677-9UU	i3-380M	2.53		*4GB*	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Mar 11
☞ 0677-9XU	i5-480M	2.66	2.93	*4GB*	14.0" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Mar 11

- ***14.0" widescreen, glossy display***
- ***Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processo	**Intel® Core™ i3 processor i3-330M**, **i3-370M**, or **i3-380M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache **Intel Core i5 processor i5-430M**, **i5-460M**, **i5-480M**, or **i5-560M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache
Memory	**4GB** std / 8GB max[7] / **PC3-8500 1066MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**320GB** (5400 rpm), **500GB** (5400 rpm), or **750GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**14.0"** (355.6mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus
Graphics	*Some:* **Intel HD Graphics in processor,** *Some:* **NVIDIA® GeForce® 310M**, PCI Express x16, **512MB** memory, DirectX 10.1, PureVideo® HD technology, CUDA™ technology external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	None
Touch controls	OneKey Theater, mute, volume up, and volume down buttons
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®)
Dimensions[3]	*(WxDxH):* 13.4" x 9.13" x 0.68" to 1.35"; 340.0mm x 231.8mm x 17.2 to 34.4mm
Weight[2]	with optical drive and battery: *6-cell:* from 4.85 lb (2.2kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*Discrete models:* up to 3.5 hr; *Integrated models:* up to 4 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	One slot (ExpressCard/34)
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Two USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
TV tuner	None
PCIe Mini Card 11b/g/n[28]	One PCI Express Mini Card slot 11b/g/n wireless[4], PCIe Mini Card adapter
Bluetooth™	Bluetooth 2.1 wireless, USB 2.0 interface
Modem	None
Ethernet	10/100 ethernet, RealTek® RTL8103EL
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Power-on password, hard disk password, supervisor password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Some: Genuine Windows® 7 Home Premium 64
- Some: Genuine Windows 7 Professional 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- ooVoo™
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

65-watt AC adapter
Wireless on/off switch
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
☞ US models announced March 2, 2011; previous models on January 26, October 20, or December 1, 2010
✂ US model withdrawn effective December 2010

© Lenovo

Lenovo® G470 (4328) - Windows 7 (web only models)

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI con-nector	Blue-tooth	Battery cells	Win7 preload	Avail date
4328-24U	i3-2310M	2.10		2GBx2	14.0" HD	2.0M	Intel HD	500GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	Blue	6-cell	Prem 64	Feb 11
4328-25U	i3-2310M	2.10		2GBx2	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Feb 11
4328-26U	i5-2410M	2.30	2.90	2GBx2	14.0" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Feb 11
4328-27U	i5-2410M	2.30	2.90	2+4GB	14.0" HD	2.0M	HD 6370M	640GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Feb 11

- ***14.0" widescreen, glossy display***
- ***Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These system are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processo	**Intel® Core™ i3-2310M processor (2 cores / 4 threads, 2.10GHz, 3MB cache)**, integrated Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz) **Intel Core i5-2410M processor (2 cores / 4 threads, 2.30GHz, 3MB cache)**, integrated Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz)
Memory	8GB max[7] / **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**500GB** (5400 rpm) or **640GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**14.0"** (355.6mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Graphics	*Some:* **Intel HD Graphics 3000 in processor;** *Some:* **AMD Radeon™ HD 6370M Graphics**, PCI Express x16, **512MB** memory, DirectX® 11 external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	None
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch
Dimensions[3]	*(WxDxH):* 13.4" x 9.13" x 0.68" to 1.35"; 340.0mm x 231.8mm x 17.2 to 34.4mm
Weight[2]	with optical drive and battery: *6-cell:* from 4.85 lb (2.2kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*Discrete models:* up to 5 hr; *Integrated models:* up to 6 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard/34	None
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
TV tuner	None
PCIe Mini Card 11b/g/n[28]	One PCI Express Mini Card slot 11b/g/n wireless[4], PCIe Mini Card adapter, Broadcom® or Atheros® chip
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface
Modem	None
Ethernet	10/100 ethernet, Atheros AR8152L
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Hard disk password, user password, administrator password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- ooVoo™
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

Integrated models: 65-watt AC adapter
Discrete models: 90-watt AC adapter
Wireless on/off switch
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US models announced February 16, 2011

© Lenovo

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI con-nector	Express-Card	eSATA port	Win7 preload	Avail date
0679-3JU	i5-430M	2.26	2.53	*4GB*	15.6" HD	0.3M	Intel HD	320GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	/34	eSATA	Prem 64	Apr 10
0679-98U	P6100	2.00		*4GB*	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black				Prem 64	Aug 10
0679-99U	P6100	2.00		*4GB*	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black				Prem 64	Aug 10
☞ 0679-AJU	P6200	2.13		2GB	15.6" HD	0.3M	Intel HD	250GB	DVD±RW	11b/g/n	Black				Prem 64	Feb 11
☞ 0679-ALU	P6200	2.13		*4GB*	15.6" HD	0.3M	Intel HD	320GB	DVD±RW	11b/g/n	Black				Prem 64	Feb 11
☞ 0679-AKU	i3-380M	2.53		*4GB*	15.6" HD	0.3M	Intel HD	500GB	DVD±RW	11b/g/n	Black				Prem 64	Feb 11

- ***15.6" widescreen, glossy display***
- ***Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processo	**Intel® Pentium® processor P6100** or **P6200** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), and 3MB cache or **Intel Core™ i3 processor i3-380M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache or **Intel Core i5 processor i5-430M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Intel Turbo Boost, Hyper-Threading technology, and 3MB cache
Memory	**2GB** or **4GB** std / 8GB max[7] / **PC3-8500 1066MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available; *Non-italics:* standard memory in one socket; 1 socket available
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**250GB** (5400 rpm), **320GB** (5400 rpm), or **500GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**15.6"** (396.2mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics in processor,** external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (on selected models)
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	Numeric keypad on right of keyboard
Touch controls	OneKey Theater, mute, volume up, and volume down buttons
Touch pad	One-piece touch pad with two button function, supports scroll feature
Dimensions[3]	*(WxDxH):* 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm
Weight[2]	with optical drive and battery: *6-cell:* from 5.73 lb (2.6kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*6-cell:* up to 4 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	*Some:* One slot (ExpressCard/34)
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Two USB 2.0, one USB 2.0/eSATA combo port (eSATA available on selected models), ethernet (RJ-45), monitor (VGA DB-15, HDMI on selected models)
TV tuner	None
PCIe Mini Card 11b/g/n[28]	One PCI Express Mini Card slot 11b/g/n wireless[4], PCIe Mini Card adapter
Bluetooth™	None
Modem	None
Ethernet	10/100 ethernet, RealTek® RTL8103EL
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Power-on password, hard disk password, supervisor password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- ooVoo™
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

65-watt AC adapter
Wireless on/off switch
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
☞ US models announced February 16, 2011; previous models on April 7 or August 25, 2010

© Lenovo

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	Mini PCIe 802.11 wireless	Top color	HDMI con-nector	Blue-tooth	Battery cells	Win7 preload	Avail date
0679-23U	i3-330M	2.13	None	*4GB*	15.6" HD	0.3M	Intel HD	320GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	None	6-cell	Prem 64	Apr 10

- ***15.6" widescreen, glossy display***
- ***Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***This system is Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processo	**Intel® Core™ i3 processor i3-330M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache
Memory	**4GB** std / 8GB max[7] / **PC3-8500 1066MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**320GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**15.6"** (396.2mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics in processor,** external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	Numeric keypad on right of keyboard
Touch controls	OneKey Theater, mute, volume up, and volume down buttons
Touch pad	One-piece touch pad with two button function, supports scroll feature
Dimensions[3]	*(WxDxH):* 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm
Weight[2]	with optical drive and battery: *6-cell:* from 5.73 lb (2.6kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*6-cell:* up to 4 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	One slot (ExpressCard/34)
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Two USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
TV tuner	None
PCIe Mini Card 11b/g/n[28]	One PCI Express Mini Card slot 11b/g/n wireless[4], PCIe Mini Card adapter
Bluetooth™	None
Modem	None
Ethernet	10/100 ethernet, RealTek® RTL8103EL
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Power-on password, hard disk password, supervisor password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- ooVoo™
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

65-watt AC adapter
Wireless on/off switch
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US model announced May 12, 2010

© Lenovo

Lenovo® G560 (0679) - Windows 7 (web only models)

Type-model	Pro-cessor	GHz	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date
0679-2AU	i3-330M	2.13	*4GB*	15.6" HD	0.3M	Intel HD	320GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	None	6-cell	Prem 64	Jan 10

- ***15.6" widescreen, glossy display***
- ***Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***This system is Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processo	**Intel® Core™ i3 processor i3-330M** with **dual-core**, DMI (Direct Media Interface), integrated DDR3 memory controller (up to 1066MHz), Hyper-Threading technology, and 3MB cache
Memory	**4GB** std / 8GB max[7] / **PC3-8500 1066MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets; *Italics:* standard memory in both sockets; no sockets available
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**320GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**15.6"** (396.2mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics in processor,** external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	Numeric keypad on right of keyboard
Touch controls	OneKey Theater, mute, volume up, and volume down buttons
Touch pad	One-piece touch pad with two button function, supports scroll feature
Dimensions[3]	*(WxDxH):* 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm
Weight[2]	with optical drive and battery: *6-cell:* from 5.73 lb (2.6kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*6-cell:* up to 4 hr
Chipset	**Mobile Intel HM55 Express Chipset**
ExpressCard/34	One slot (ExpressCard/34)
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Two USB 2.0, one USB 2.0/eSATA combo port, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
TV tuner	None
PCIe Mini Card 11b/g/n[28]	One PCI Express Mini Card slot 11b/g/n wireless[4], PCIe Mini Card adapter
Bluetooth™	None
Modem	None
Ethernet	10/100 ethernet, RealTek® RTL8103EL
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (2 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Power-on password, hard disk password, supervisor password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- ooVoo™
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

65-watt AC adapter
Wireless on/off switch
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US model announced January 26, 2010

© Lenovo

Lenovo® G570 (4334) - Windows 7

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date
4334-46U	i3-2310M	2.10	None	4GBx1	15.6" HD	0.3M	Intel HD	500GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	None	6-cell	Prem 64	Mar 11

- ***15.6" widescreen, glossy display***
- ***Integrated 0.3 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***This system is Microsoft Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processor	**Intel® Core™ i3-2310M processor (2 cores / 4 threads, 2.10GHz, 3MB cache)**, integrated Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz)
Memory	8GB max[7] / **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**500GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**15.6"** (396.2mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 0.3-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics 3000 in processor,** external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	Numeric keypad on right of keyboard
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch
Dimensions[3]	*(WxDxH):* 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm
Weight[2]	with optical drive and battery: *6-cell:* from 5.73 lb (2.6kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*Integrated models:* up to 6 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard/34	None
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
TV tuner	None
PCIe Mini Card 11b/g/n[28]	One PCI Express Mini Card slot 11b/g/n wireless[4], PCIe Mini Card adapter, Broadcom® or Atheros® chip
Bluetooth™	None
Modem	None
Ethernet	10/100 ethernet, Atheros AR8152L
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Hard disk password, user password, administrator password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft® Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

65-watt AC adapter
Wireless on/off switch
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US model announced March 23, 2011

© Lenovo

Lenovo® G570 (4334) - Windows 7 (web only models)

Type-model	Pro-cessor	GHz	Max turbo (GHz)	Memory	Widescreen display	Cam-era	Integrated graphics	SATA disk	SATA optical	PCIe Mini Card 802.11	Top color	HDMI connector	Blue-tooth	Battery cells	Win7 preload	Avail date
4334-2HU	i3-2310M	2.10		2GBx2	15.6" HD	2.0M	Intel HD	500GB[8]	DVD±RW	11b/g/n[28]	Black	HDMI	Blue	6-cell	Prem 64	Feb 11
4334-2JU	i3-2310M	2.10		2GBx2	15.6" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Feb 11
4334-2KU	i5-2410M	2.30	2.90	2GBx2	15.6" HD	2.0M	Intel HD	500GB	DVD±RW	11b/g/n	Black	HDMI	Blue	6-cell	Prem 64	Feb 11

- ***15.6" widescreen, glossy display***
- ***Integrated 2.0 megapixel camera and Lenovo's VeriFace facial recognition software helps control access to your notebook by recognizing your face***
- ***Lenovo Rescue System provides OneKey recovery and OneKey Antivirus without booting into Windows***
- ***These systems are Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*Widescreen flexibility; two-spindle*
Processo	**Intel® Core™ i3-2310M processor (2 cores / 4 threads, 2.10GHz, 3MB cache)**, integrated Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz) **Intel Core i5-2410M processor (2 cores / 4 threads, 2.30GHz, 3MB cache)**, integrated Intel HD Graphics 3000, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (2.90GHz)
Memory	8GB max[7] / **PC3-10600 1333MHz DDR3**, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets;
Diskette drive	None
SATA DVD±RW	DVD burner, dual-layer support, fixed, not removable, 12.7mm high, tray-in
SATA disk	**500GB** (5400 rpm) / SATA 3.0Gb/s, 9.5mm high
Widescreen display	**15.6"** (396.2mm) **HD (1366x768) TFT color**, **VibrantView** (glossy), **LED backlight,** 220 nits, 16:9 aspect ratio, 500:1 contrast ratio
Camera	Camera on top of screen, 2.0-megapixel, fixed focus
Integrated graphics	**Intel HD Graphics 3000 in processor,** external analog monitor support via VGA DB-15 connector and digital monitor support via HDMI connector (HDCP-compliant)
Keyboard	Full-size keyboard, multimedia Fn keys, recovery key
Numeric keypad	Numeric keypad on right of keyboard
Touch pad	Two-button touch pad with scroll feature (no TrackPoint®), multi-touch
Dimensions[3]	*(WxDxH):* 14.83" x 9.83" x 0.68" to 1.37"; 376.8mm x 249.8mm x 17.3 to 34.9mm
Weight[2]	with optical drive and battery: *6-cell:* from 5.73 lb (2.6kg)
Case color	Black top, black bottom
Case material	Polycarbonate/Acrylonitrile-Butadiene-Styrene (PC/ABS) plastic
Battery - type	Lithium Ion **6-cell**
Battery - life[10]	*Discrete models:* up to 5 hr; *Integrated models:* up to 6 hr
Chipset	**Mobile Intel HM65 Express Chipset**
ExpressCard/34	None
Multicard reader	5-in-1 reader (MMC, Memory Stick®, Memory Stick PRO™, Secure Digital Card, xD-Picture Card™)
Ports	Four USB 2.0, external monitor (VGA DB-15, HDMI), ethernet (RJ-45)
TV tuner	None
PCIe Mini Card	One PCI Express Mini Card slot
11b/g/n[28]	11b/g/n wireless[4], PCIe Mini Card adapter, Broadcom® or Atheros® chip
Bluetooth™	Bluetooth 2.1 wireless + EDR, USB 2.0 interface
Modem	None
Ethernet	10/100 ethernet, Atheros AR8152L
Audio support	High Definition (HD) Audio, Conexant® CX20671 codec / stereo speakers (1.5 watt x 2) / microphone, microphone input jack (3.5 mm), headphone jack (3.5 mm)
Security	Hard disk password, user password, administrator password, security lockhole
Fingerprint reader	None

Preloaded operating system[20]
- Genuine Windows® 7 Home Premium 64

Preloaded applications[14] (only some listed)
- Lenovo OneKey Recovery
- Lenovo ReadyComm
- McAfee® VirusScan® Plus (60 days of virus definitions)
- Adobe® Reader®
- CyberLink YouCam
- Microsoft Office 2010 preloaded; purchase product key to activate
- VeriFace™
- Lenovo Energy Management Software
- Lenovo DirectShare
- Cyberlink Power2Go (DVD±RW)

65-watt AC adapter
Wireless on/off switch
EPEAT™ Gold rating
ENERGY STAR® 5.0-compliant
RoHS-compliant

Limited Warranty[12]

- **1-year warranty*:**
  *** 1- year on major electronic components (including battery), 90-day on keyboard, hinges, plastics, power cord, AC adapter**
- **Mail In repair service**
- **Service upgrade options**[58] **(in eligible locations):**[9]
  - **3-year Depot warranty** 78Y1538
  - **1-year Mail In with accidental damage protection** 55Y2511
  - **3-year Mail In with accidental damage protection** 78Y1539
  - **3-year Onsite warranty** 78Y1540
  - **1-year Onsite with accidental damage protection** 78Y1533
- **Toll-free support for warranty issues during the warranty period**[12] **via 877-453-6686**

See footnotes for important warranty information
US models announced February 16, 2011

© Lenovo

Partial list of Lenovo® Care Services[22] for Lenovo Essential notebooks

For more information see:
http://www.lenovo.com/services_warranty/us/en/index.html

Lenovo Care service upgrade options

Lenovo Value Line notebooks with 1-year Mail In warranty

Mail in = Mail In repair, ADP = Accidental Damage Protection

2-year Depot warranty	78Y1534
3-year Depot warranty	78Y1538
1-year Mail In warranty with ADP	55Y2511
2-year Mail In warranty with ADP	78Y1535
3-year Mail In warranty with ADP	78Y1539

LOR = Lenovo Onsite Repair, ADP = Accidental Damage Protection

1-year LOR warranty 9x5 NBD	78Y1532
2-year LOR warranty 9x5 NBD	78Y1536
3-year LOR warranty 9x5 NBD	78Y1540
1-year LOR warranty 9x5 NBD with ADP	78Y1533
2-year LOR warranty 9x5 NBD with ADP	78Y1537
3-year LOR warranty 9x5 NBD with ADP	78Y1541

© Lenovo

Availability: All offers subject to availability. Lenovo reserves the right to alter product offerings and specifications at any time, without notice. Lenovo is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept ZPYA/B676. Lenovo makes no representation or warranty regarding third party products or services.

Footnotes:

[1] Power management, including Intel® SpeedStep® Technology, reduces processor speed when in battery mode.

[2] **Weight** includes battery and standard optical drive; weight may vary due to vendor components, manufacturing process and options.

[3] **Thinness** may vary at certain points on the system.

[4] **Wireless capability:** Requires compatible wireless-enabled options sold separately.

[5] **Post-warranty annual maintenance agreement:** Service begins at the end of the base warranty or the end of any other applied warranty and maintenance option, whichever occurs last. Service delivery is not available the same day the maintenance agreement is purchased. Maintenance agreements must be purchased and the registration successfully completed prior to the service being available.

[6] **Public network download modem speeds** are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[7] **Maximum memory capacity** may require the replacement of standard component with largest supported component available. Even though it is possible to physically install 4GB of memory, the actual amount of memory addressable by a 32-bit operating system will be limited to 3GB. This limitation does not exist with 64-bit operating systems.

[8] **Hard drive:** GB = billion bytes, TB = trillion bytes. Accessible capacity is less; up to 4GB is service partition.

[9] **Service upgrade options:** Upgrades do not apply to components covered for 90 days. Those remain at 90-day warranty

[10] **Battery:** These model numbers achieved Battery Rundown Time of at least the time shown during testing. A description of the testing available at **lenovo.com**/pc/ww/thinkpad/batterylife. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning, and other customer preferences.

[11] **Wireless:** Based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

[12] **Limited warranty:** Support unrelated to a warranty issue may be subject to additional charges.

[13] **Onsite Service:** If a machine is listed as having "On-site", this means that on-site service is available for the replacement of parts for warranty repairs. Certain parts, referred to as Customer Replaceable Unit ("CRU") parts, are easy to install and require little or no tools or technical knowledge. Some examples of CRU parts are mice, keyboards, hard disk drives, speakers, and memory. If your problem can be resolved with a CRU, the Support Center will offer to ship the part to you for you to install.

[14] **Included software** may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.

[15] **Modem speeds:** Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability.

[17] **International Warranty Service** is available for most products in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

[18] **Telephone support** may be subject to additional charges, even during the limited warranty period. Response times may vary and may exclude some holidays.

[19] **EasyServ depot repair:** The customer may be asked certain diagnostic questions before a courier is sent. Your purchase includes this depot repair service, available in the U.S. during the limited warranty period.

[20] **Operating System:** Level of support varies by operating system. Operating systems not preloaded on the system may not provide full feature functionality. Refer to lenovo.com/pc/support and enter your machine type and model number for more information.

[21] **For combination drives**, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.

[22] **Lenovo Care Services:** These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees. If the machine problem turns out to be a Customer Replaceable Unit (CRU), a part can be express shipped to you for quick replacement. For notebooks requiring LCD or other component replacement, Lenovo may choose to perform service at the depot repair center. Calls must be received by 5 pm local time in order to qualify for Next Business Day service. P&L means parts and labor. P/U means pick-up. See terms and conditions for complete details and restrictions.

[25] **Wireless WAN Cards:** Wireless data service requires separate agreement with Verizon Wireless. Verizon Wireless, not Lenovo, is solely responsible for service. Monthly and airtime charges may apply. Service may not be available in all areas; purchaser is responsible for verifying with Verizon Wireless that service is available for the intended location before the purchase of the card. For complete details, including service plans, additional required hardware or software, and service coverage, visit www.verizonwireless.com.

[28] **The IEEE 802.11n specification (MIMO)** has been finalized and is currently in IEEE 802.11n-2009 release. The maximum speed depends on the access point device and the number of integrated antenna used for connection. An adapter with 11a/b, 11a/b/g, 11b/g/n, or 11a/b/g/n can communicate on any of its supported formats.

[58] **Service upgrade options for Split Warranty:** (1) Mail In upgrades cover all components except power adapter, keyboard, plastics, and hinges after 90 days through end of first year. The "Mail-In" upgrades require customer to pay the leg of shipping into the depot repair center. (2) Onsite upgrades cover all components except power adapter, keyboard, plastics, and hinges after 90 days through end of term selected. (3) Accidental Damage Protection covers all components through the end of the term selected.

This publication was developed for products and services offered in the United States. Lenovo may not offer the products, services or features discussed in this document in other countries. Lenovo may withdraw an offering at any time. Information is subject to change without notice. Consult your local representative for information on offerings available in your area.

Lenovo reserves the right to change specifications or other product information without notice. Lenovo is not responsible for photographic or typographical errors. LENOVO PROVIDES THIS PUBLICATION "AS IS," WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore this disclaimer may not apply to you.

Trademarks: Lenovo, the Lenovo logo, New World. New Thinking., Access Connections, Rescue and Recovery, ThinkCentre, ThinkPad, ThinkStation, ThinkVantage, and ThinkVision are trademarks of Lenovo. Microsoft, Windows, and Vista are registered trademarks of Microsoft Corporation. Intel, the Intel logo, Intel Inside logo, Intel Core and Core Inside are trademarks of Intel Corporation in the US and other countries. Other company, product, or service names may be trademarks or service marks of others.

ENERGY STAR: As an ENERGY STAR Partner, Lenovo has determined that this product meets the ENERGY STAR guidelines for energy efficiency.

Visit **www.lenovo.com/safecomputing** periodically for the latest information on safe and effective computing.

Visit **www.lenovo.com/psref** for the latest version of Personal Systems Reference.

© Lenovo, 2011.
All rights reserved.

Lenovo
1009 Think Place
Morrisville, NC 27560
U.S.A.

March 2011
3book.pdf